

FIG. 1A

FIG. 1

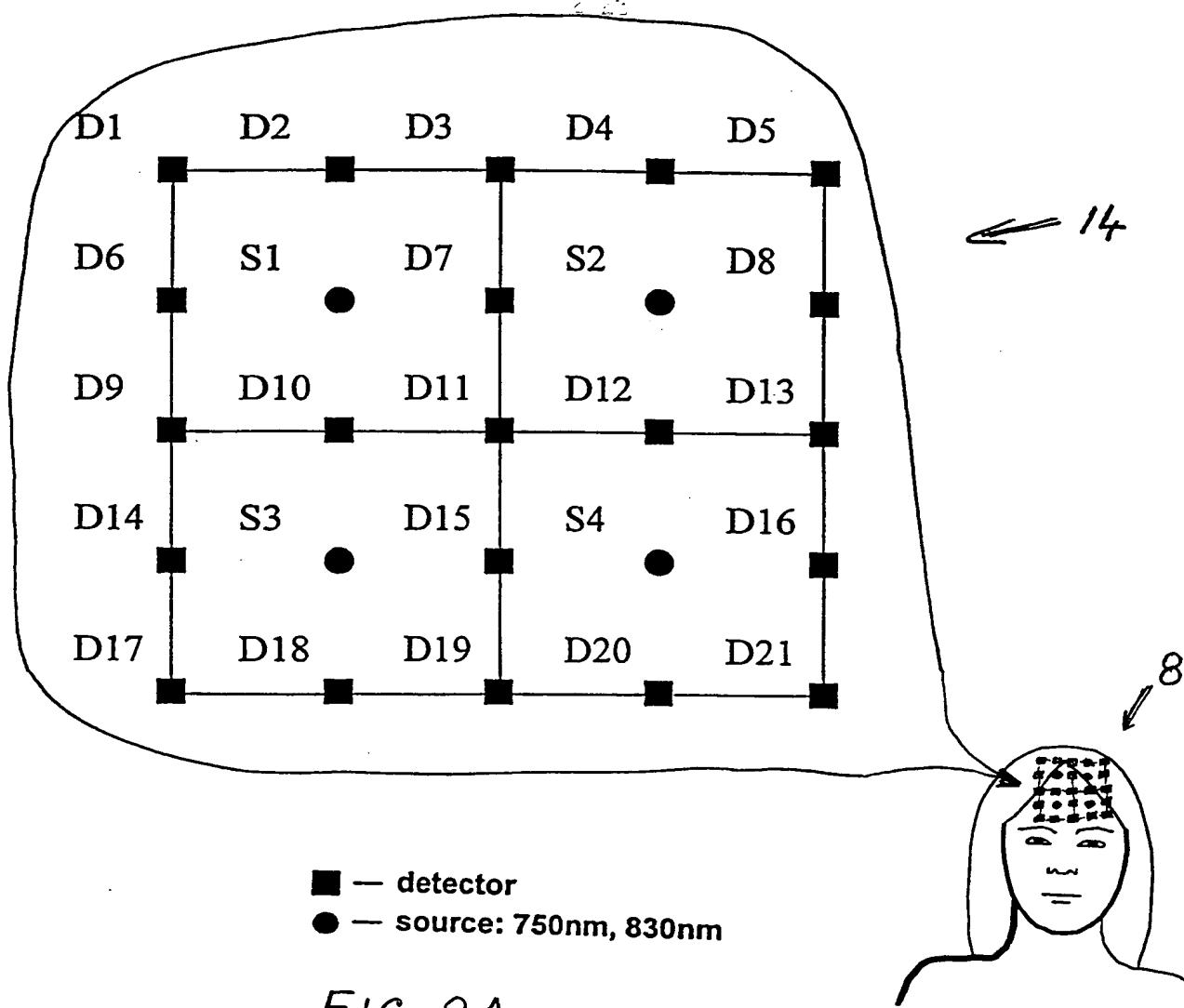


FIG. 2A

FIG. 2

50 MHz SINGLE WAVELENGTH PMS/PHASE ARRAY IMAGE SYSTEM

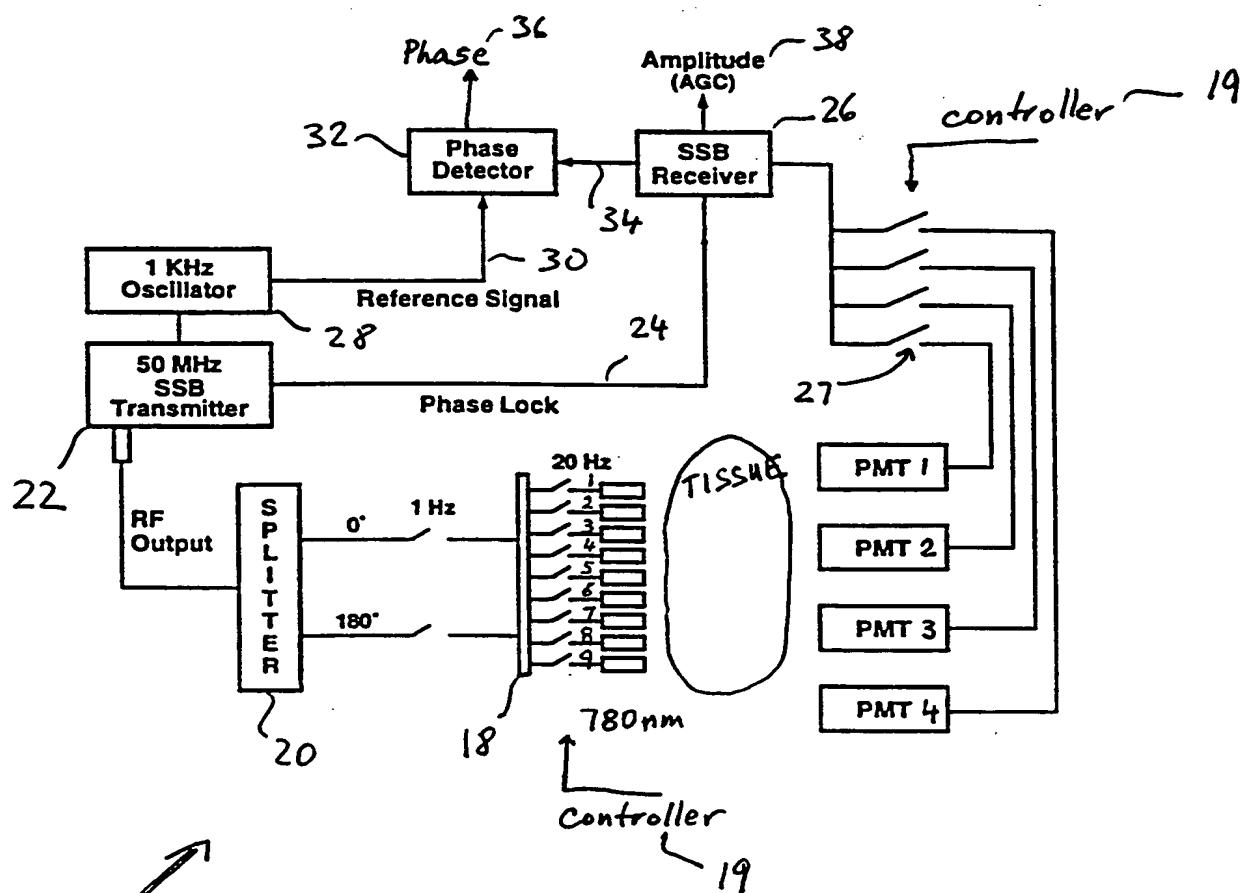
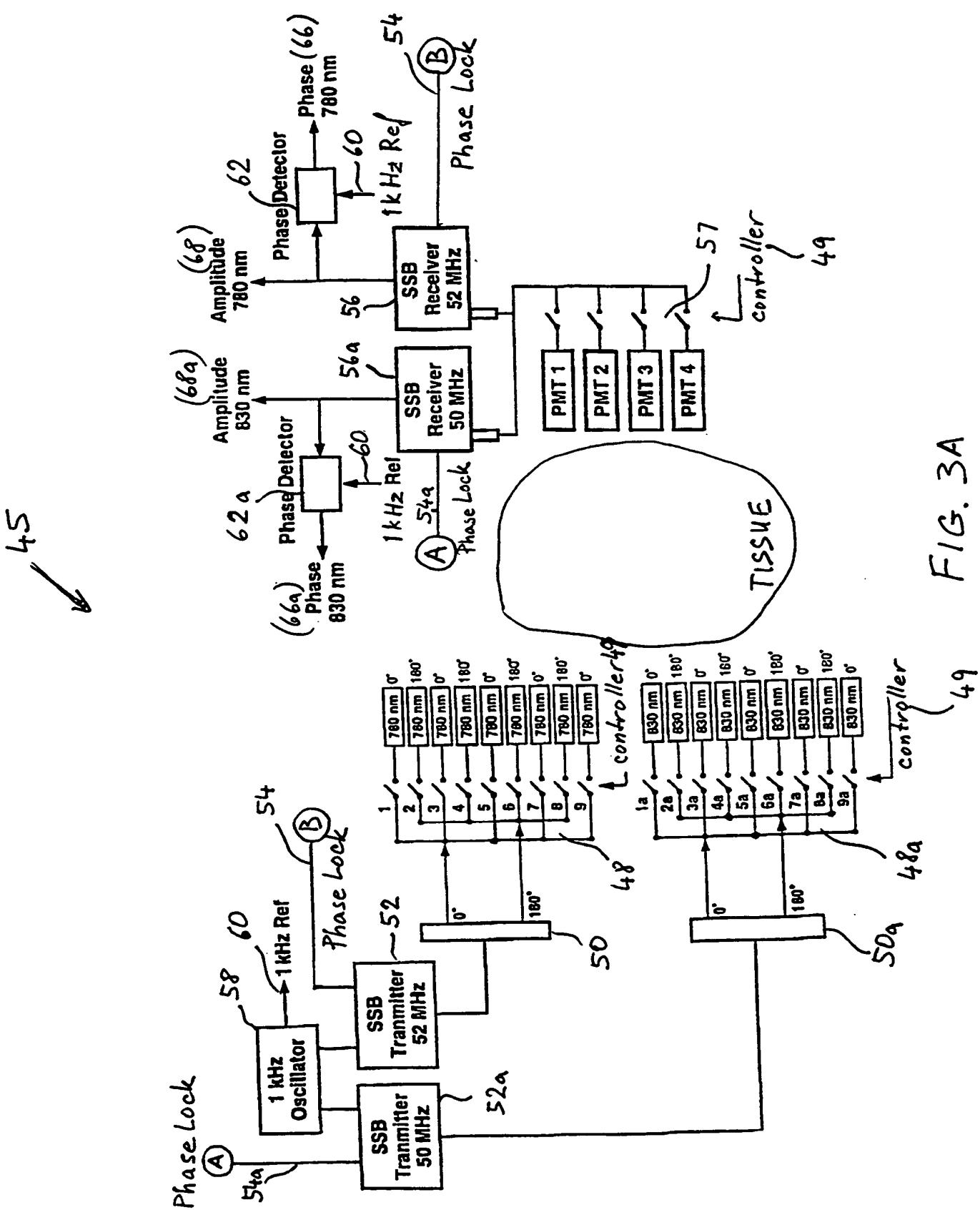


FIG. 3



Sources	Detectors
1, 2, 1a, and 2a	1
2, 3, 2a, and 3a	2
4, 5, 4a, and 5a	1
5, 6, 5a, and 4a	2
7, 8, 7a, and 8a	3
8, 9, 8a, and 9a	4
4, 5, 4a, and 5a	3
5, 6, 5a, and 6a	4
7, 8, 7a and 8a	3

40 
FIG. 3B

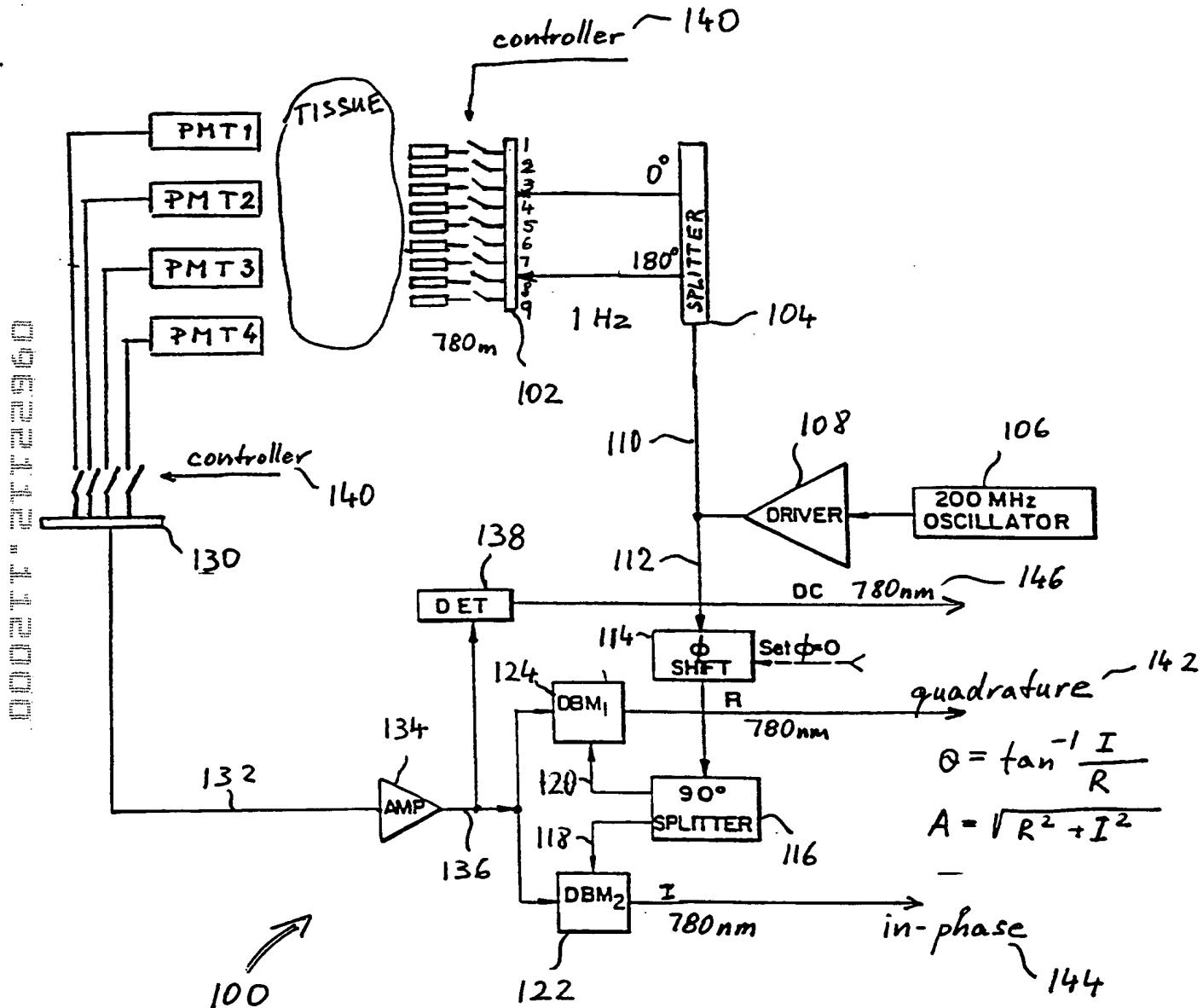


FIG. 4

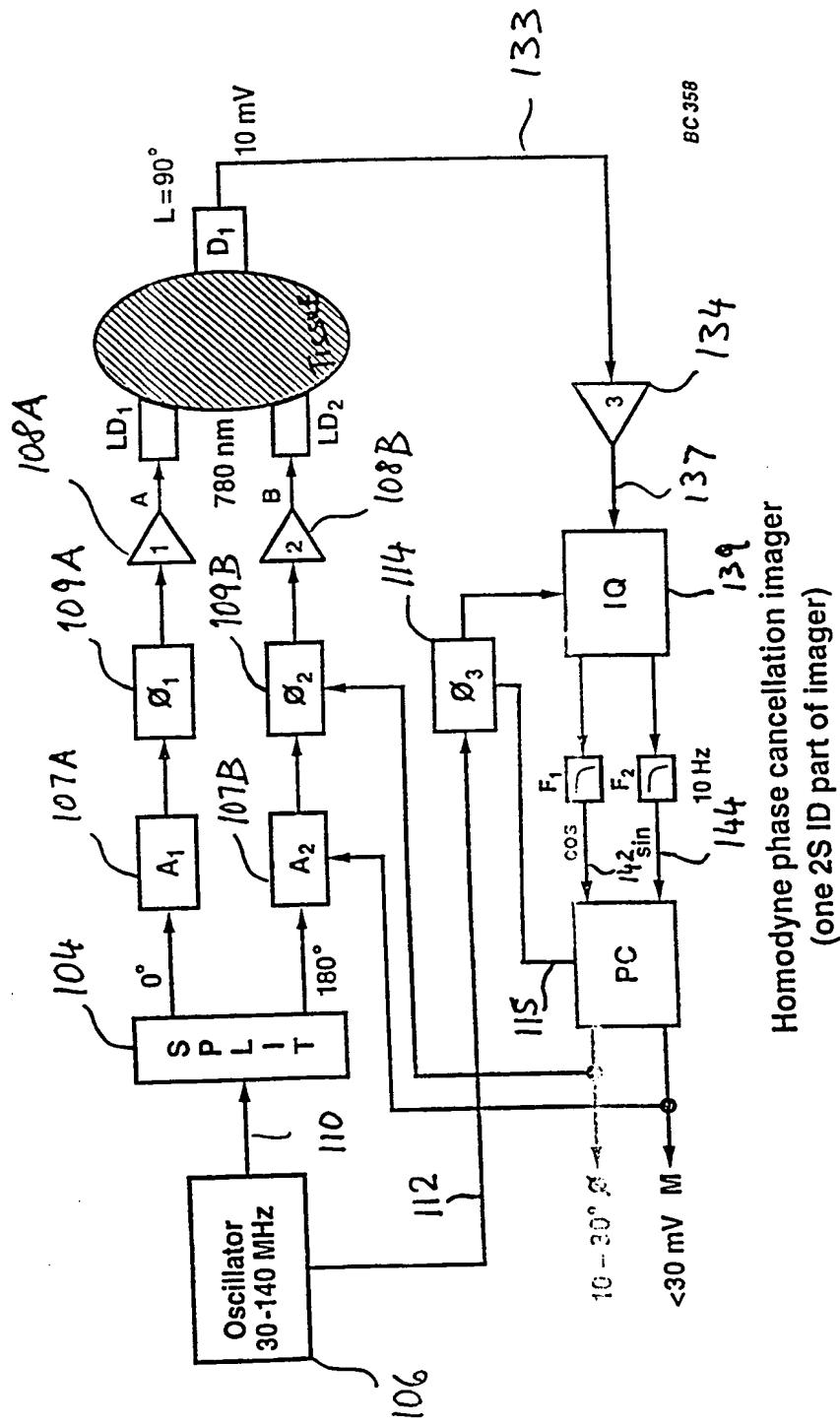
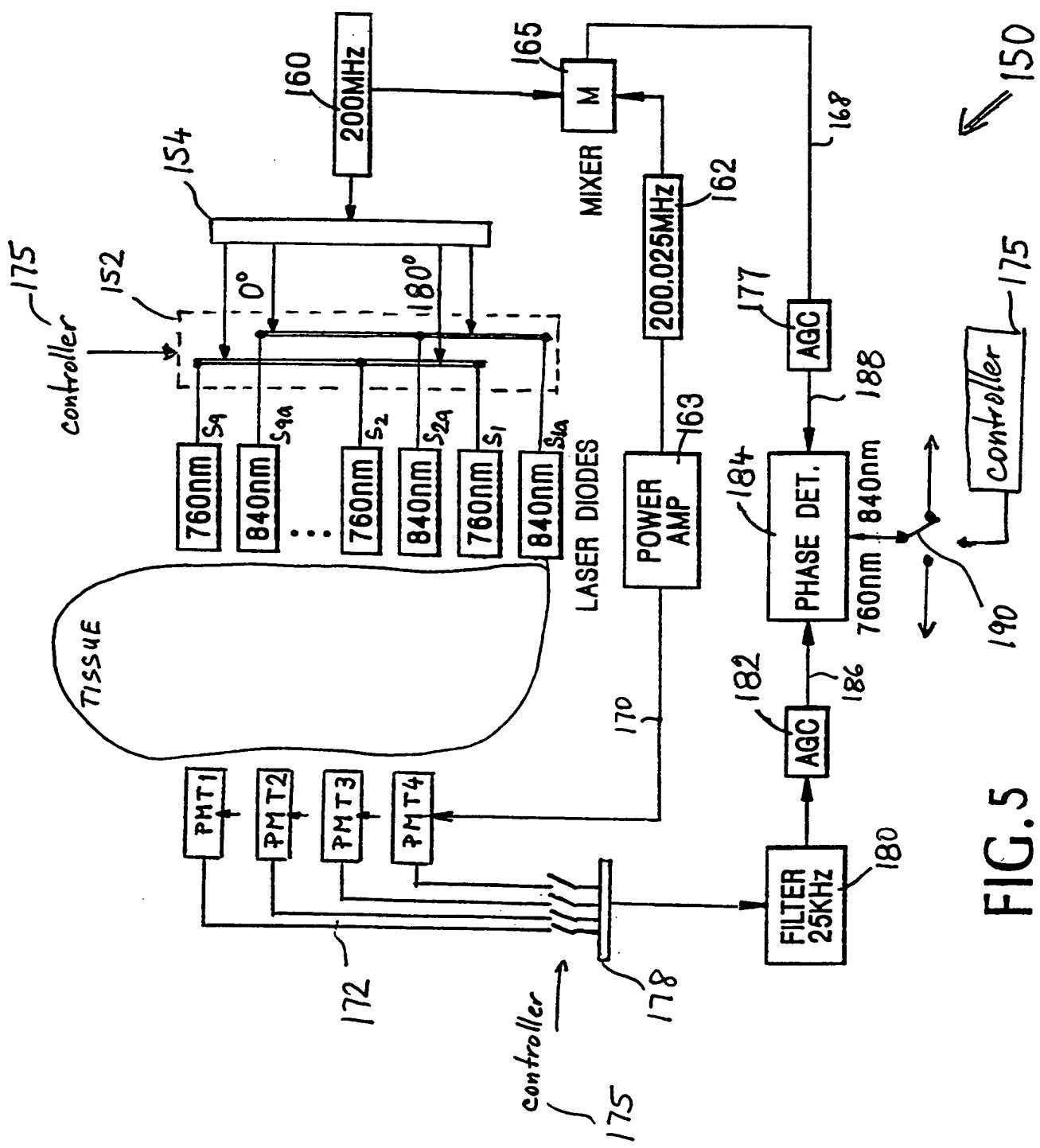
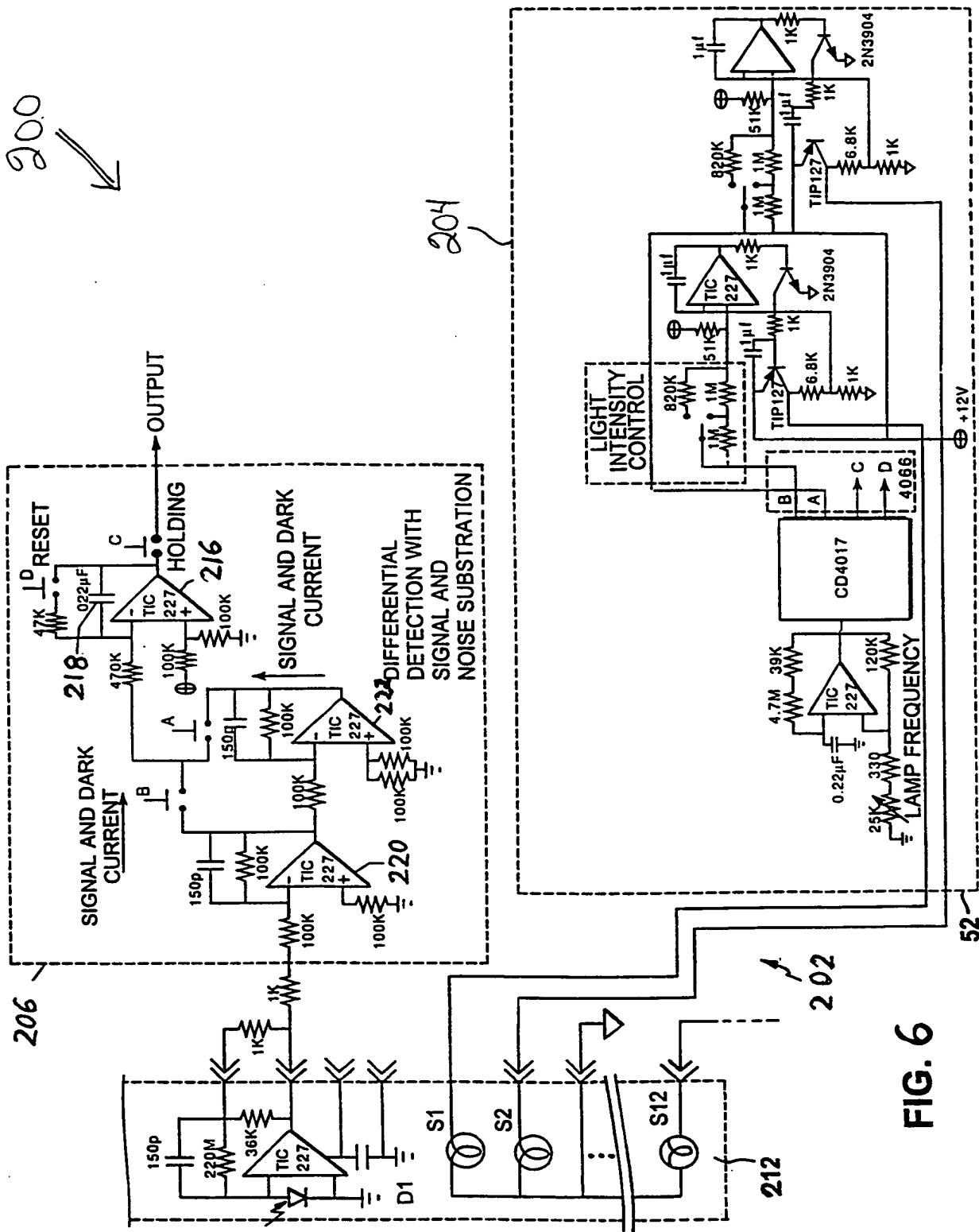


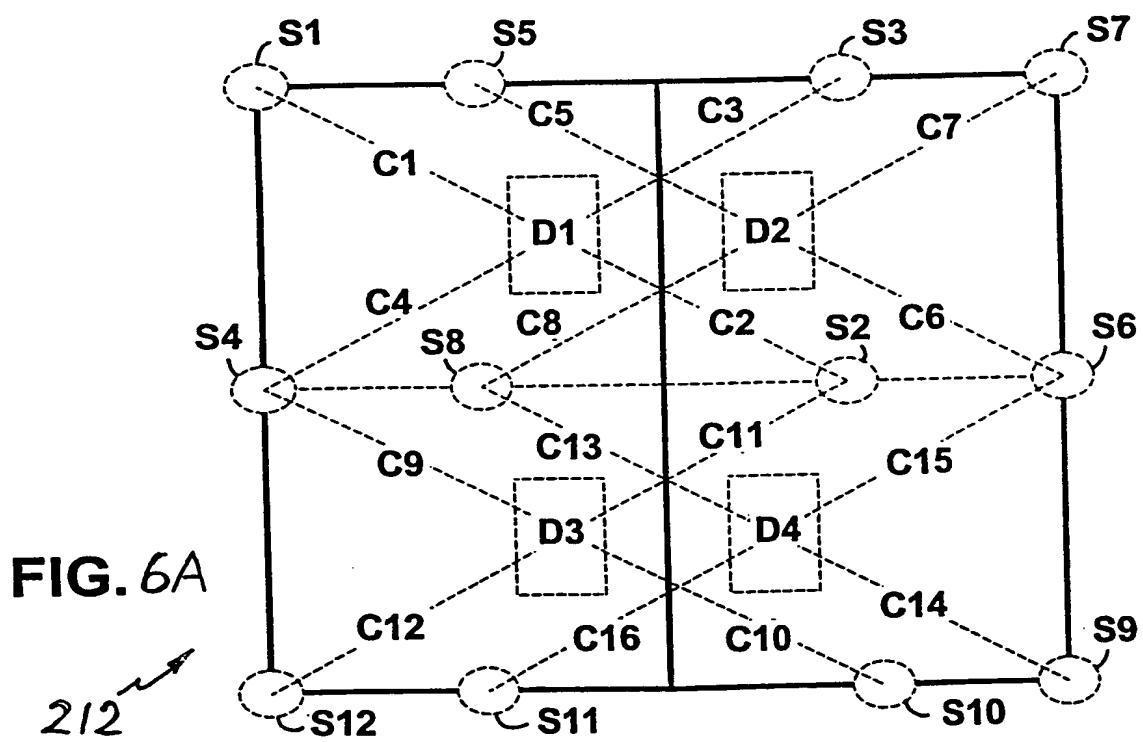
FIG. 4A



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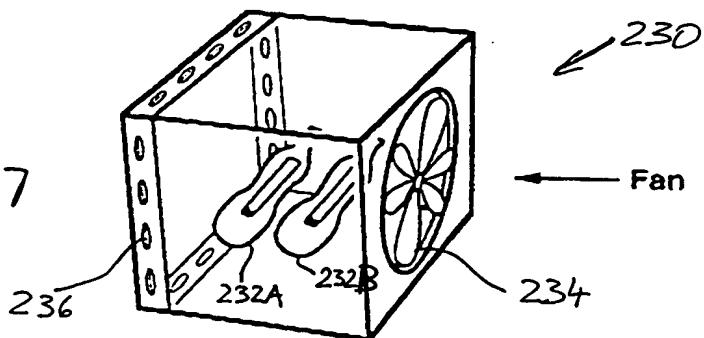


6
EIG



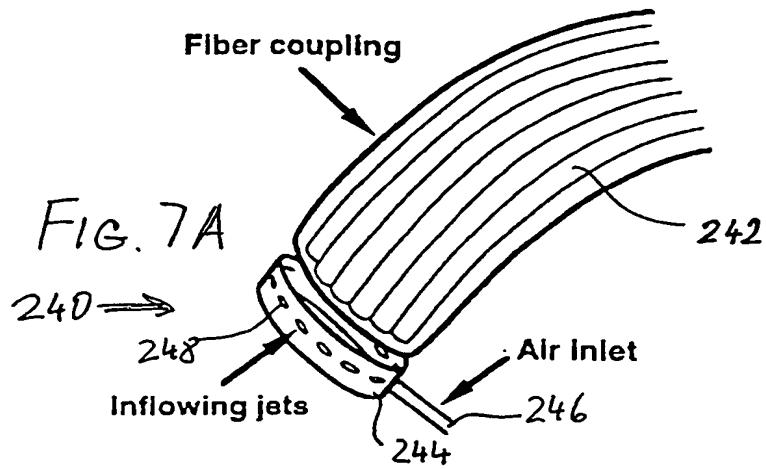
Air cooled lamp

FIG. 7



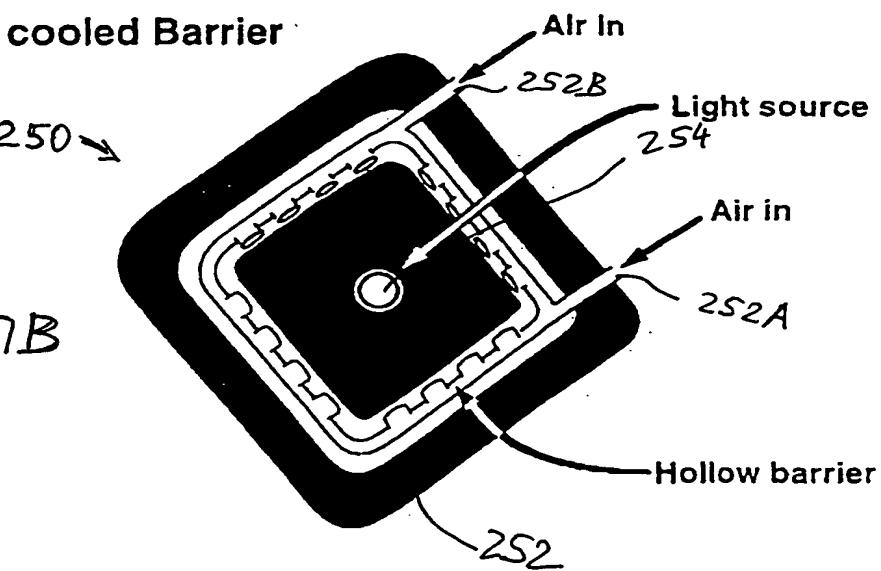
Air cooled light guide

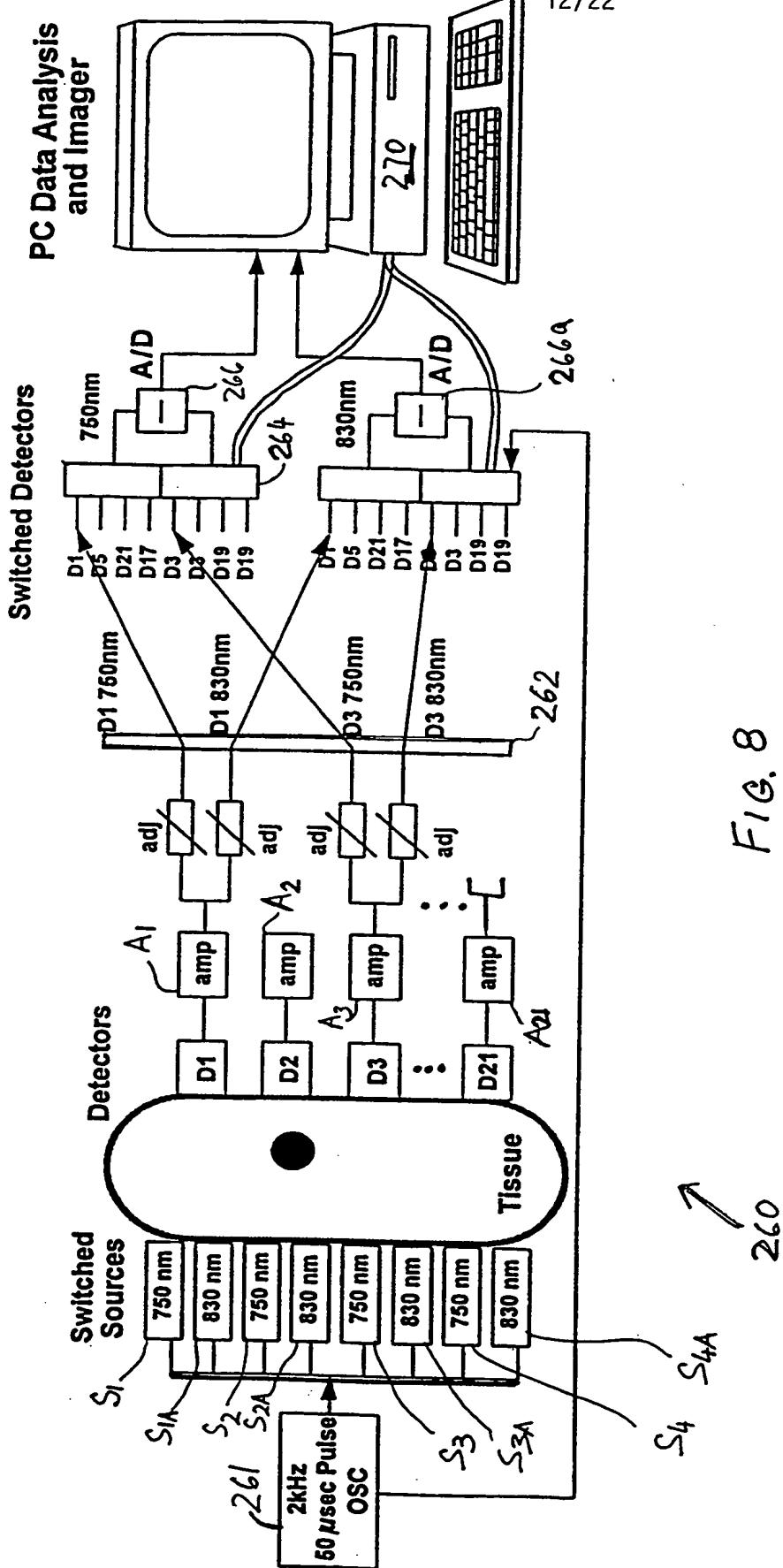
FIG. 7A



Air cooled Barrier

FIG. 7B





**CIRCUIT CONFIGURATION FOR
TIME MULTIPLEX AMPLITUDE CANCELLATION IMAGER**

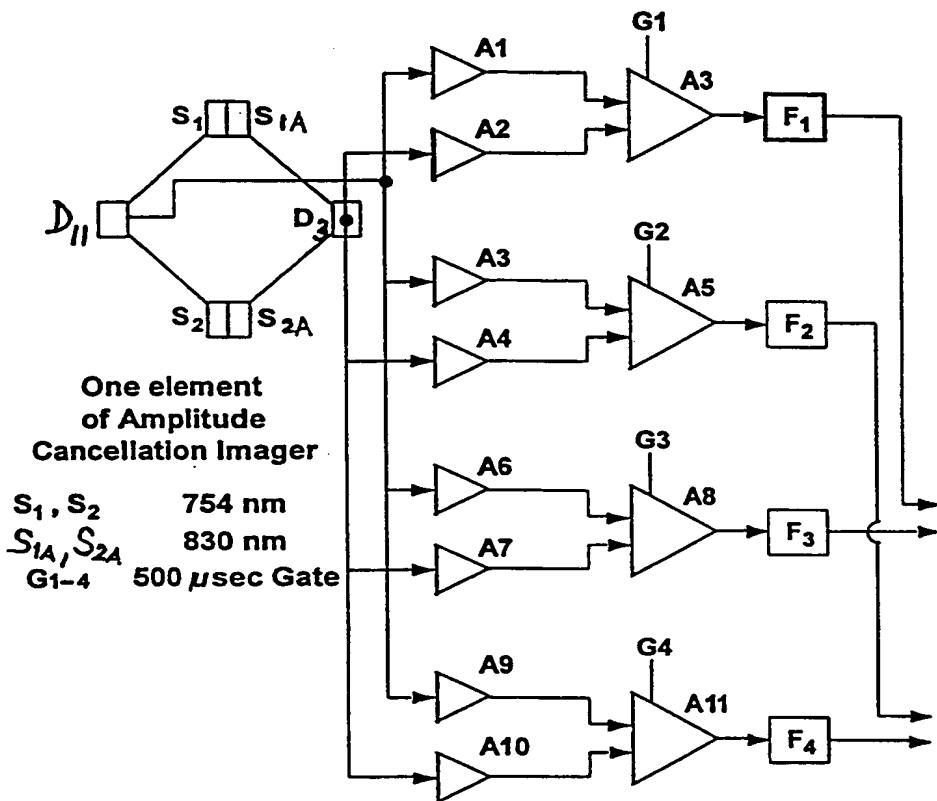


FIG. 8A

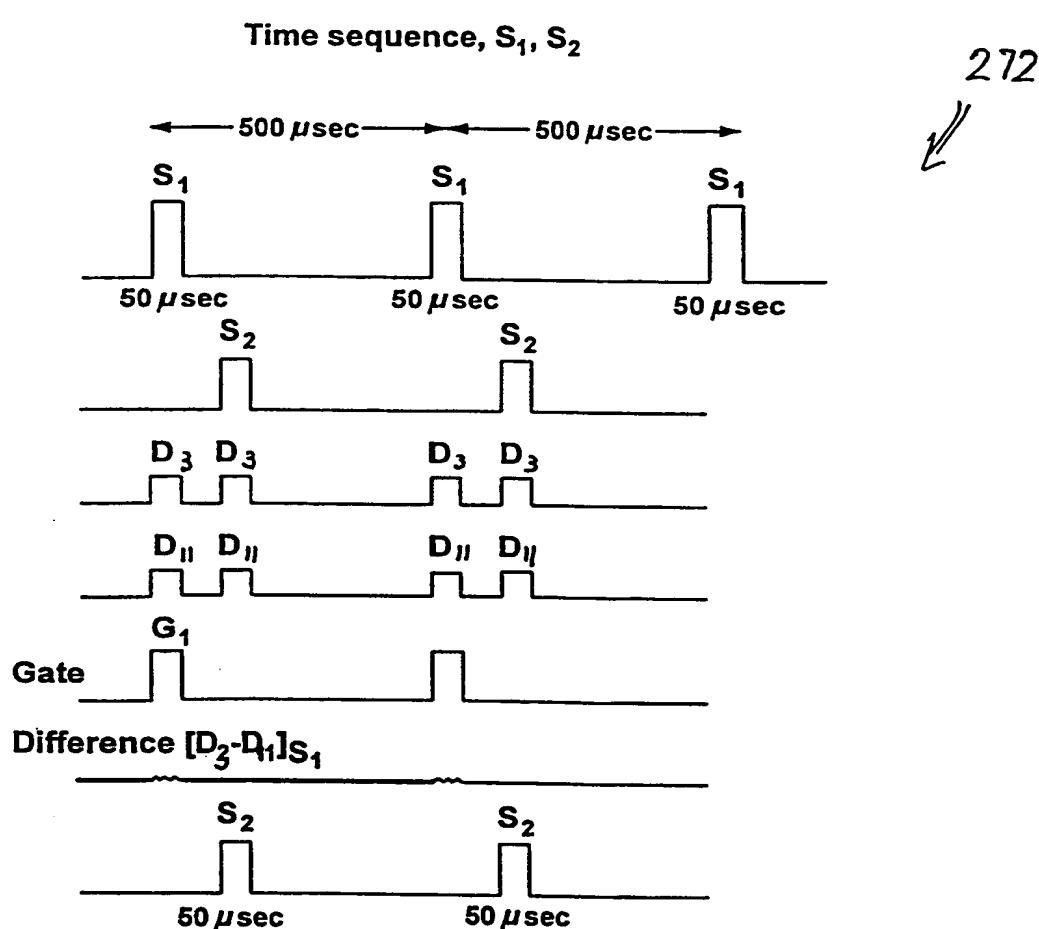


FIG. 8B

TIME MULTIPLEX 4×2 sources, 21 detectors, SH, AGC

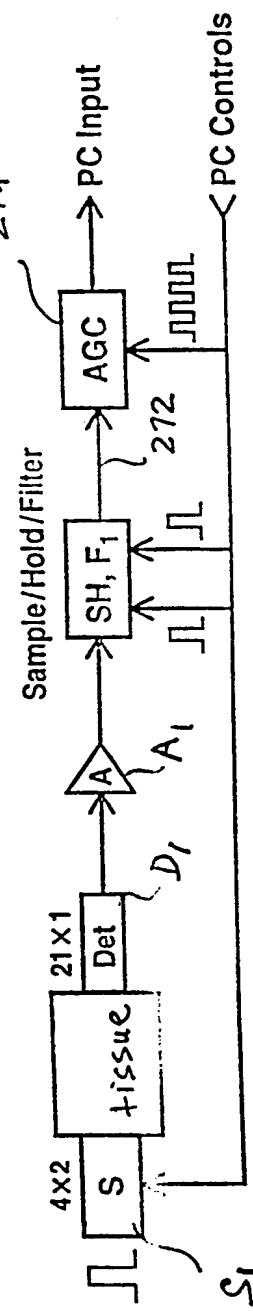


Fig. 8c

260A

FREQUENCY MULTIPLEX
21 x 2 sources/oscillators, 4 detectors, 40 filters (high/low), 20 AGC, 20 Lock-in

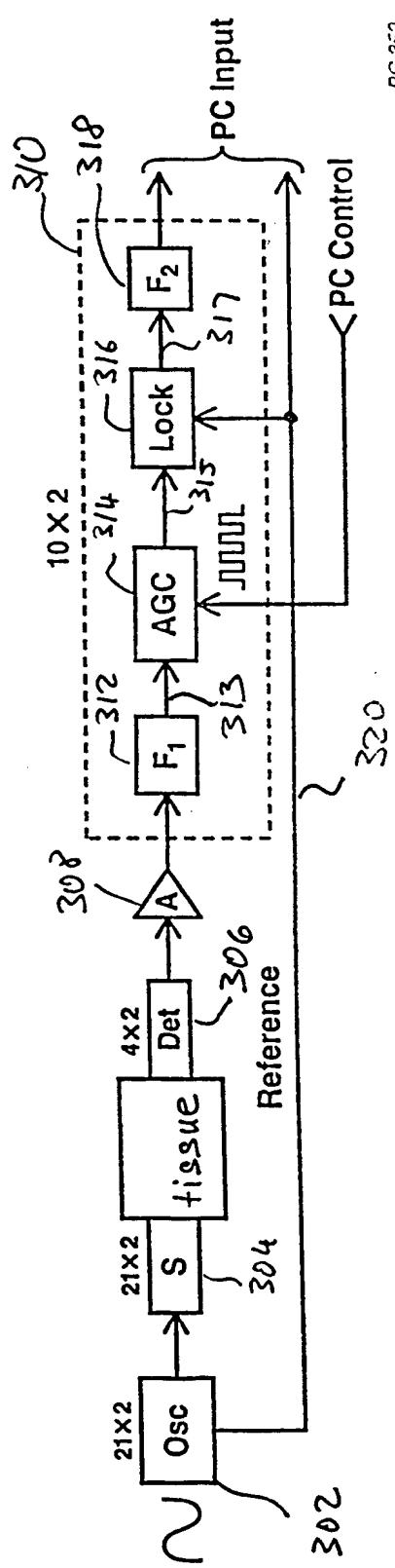


FIG. 8D

300

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Dual Wavelength NIR Phased Array Imager 2D Vasculogenesis VS Hypermetabolism Imagery

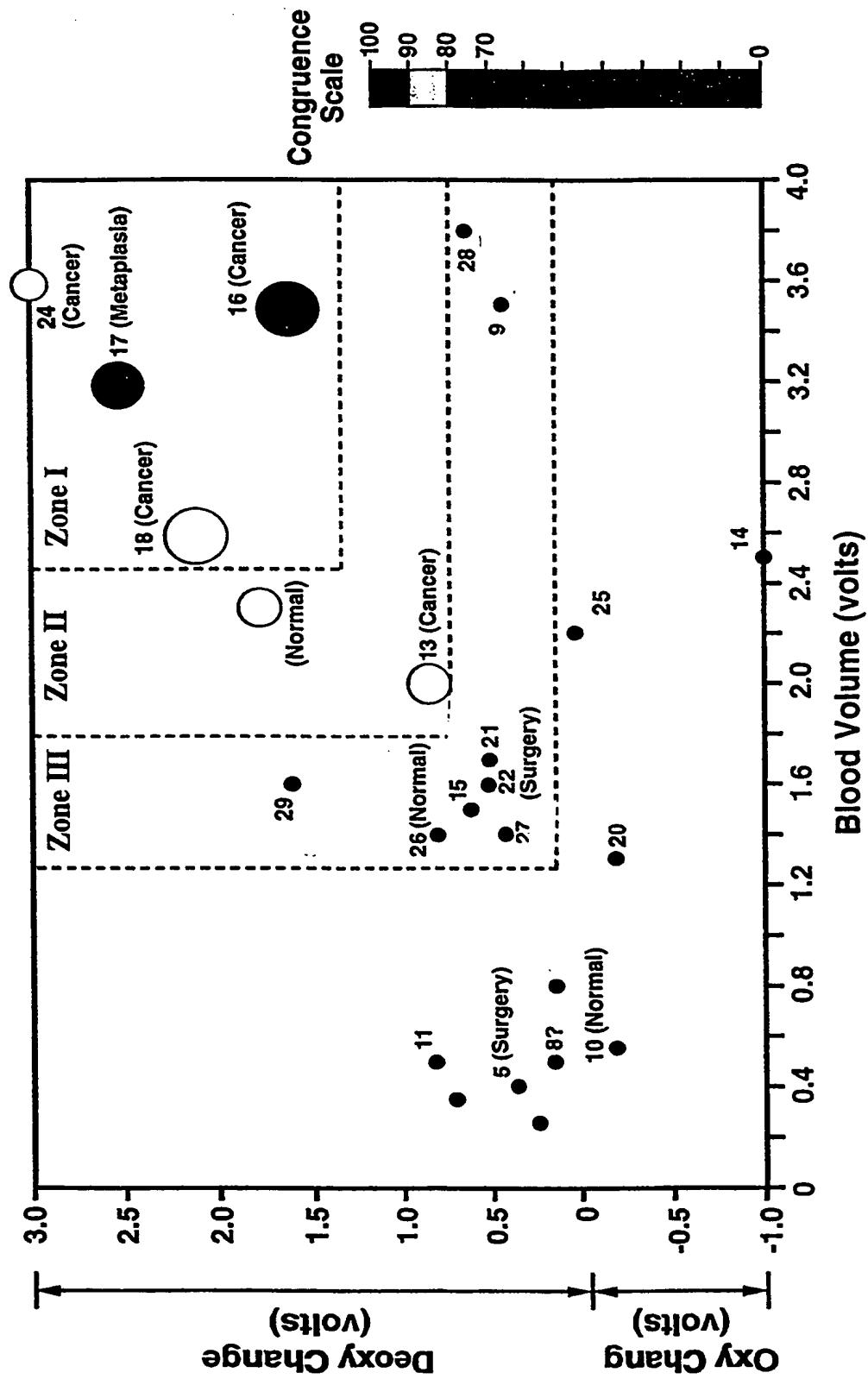
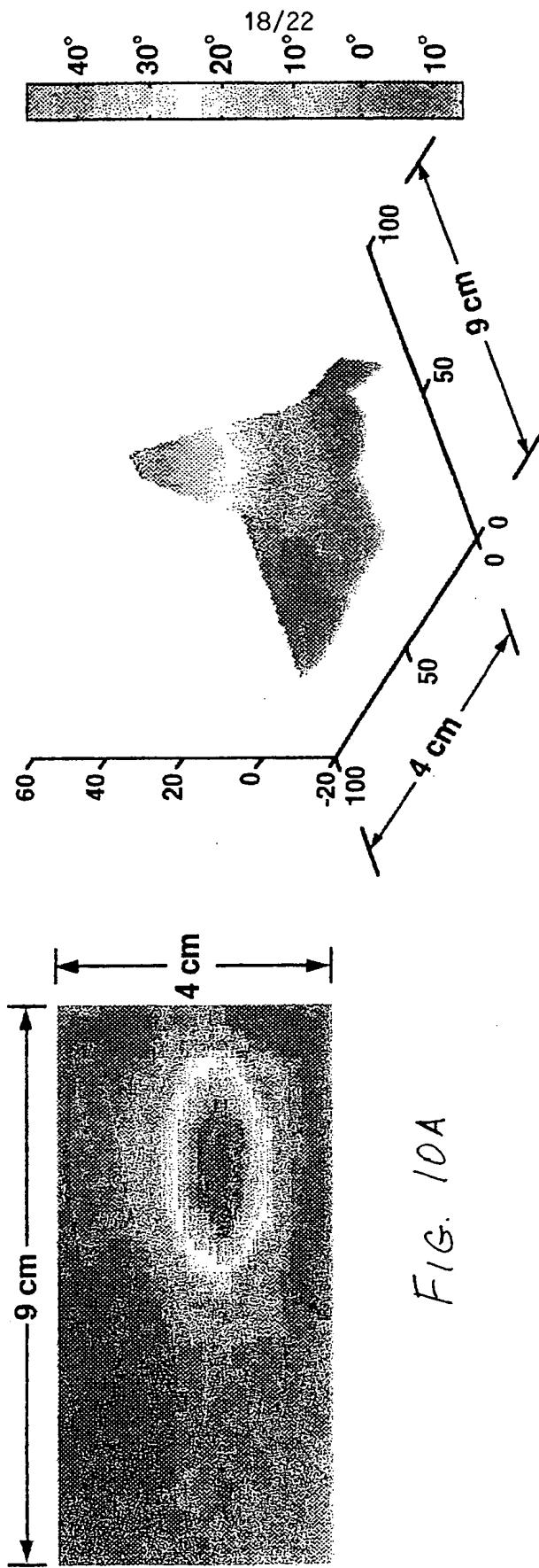


FIG. 9

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PCT/US99/03030



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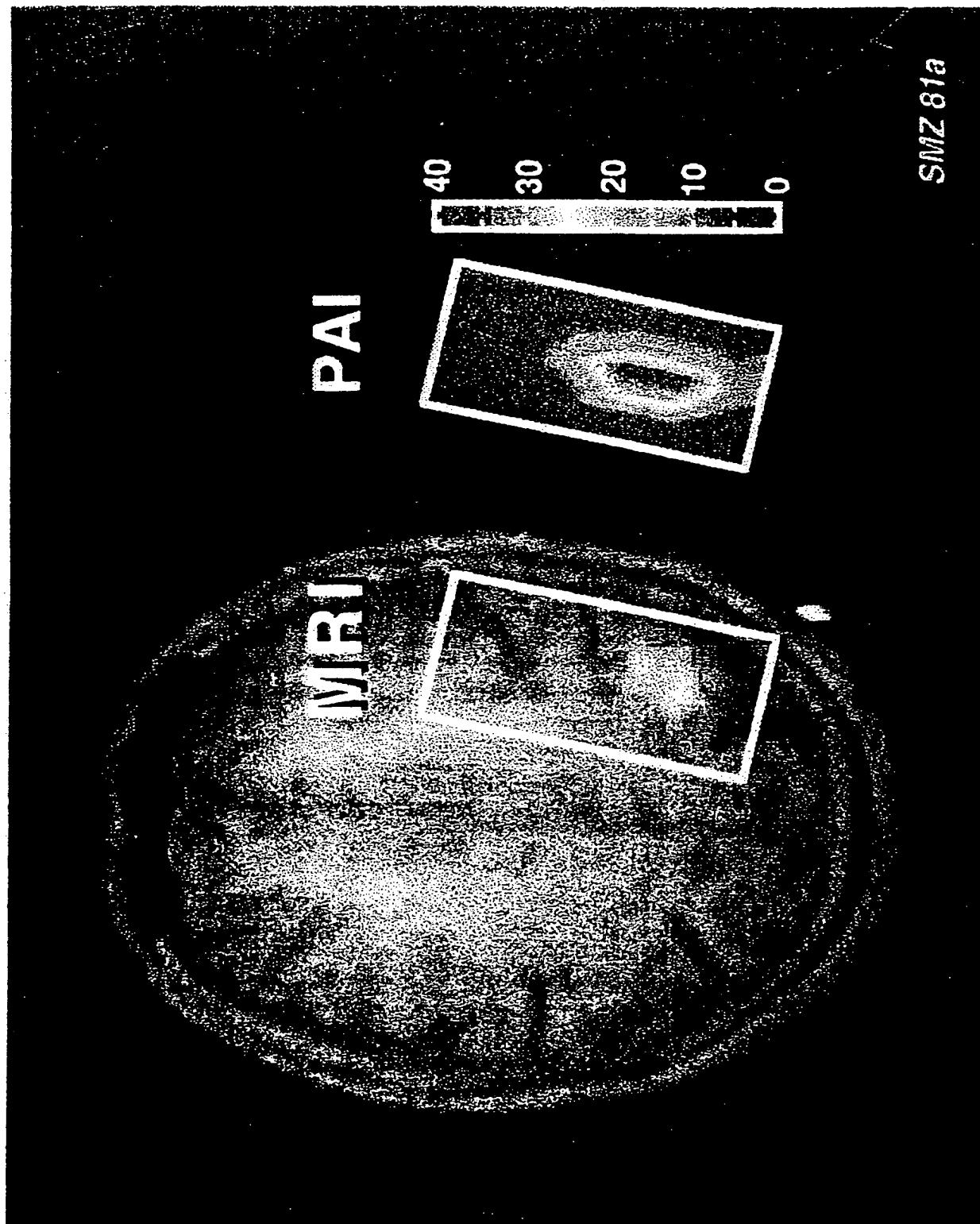
0005200A 11 07/11/99 05:00:00

09/622112

WO 99/40841

PCT/US99/03030

19/22



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Phase Array Repetitive Study on Forehead

(backward spelling 30s minus rest 30s)

Fig.12 a

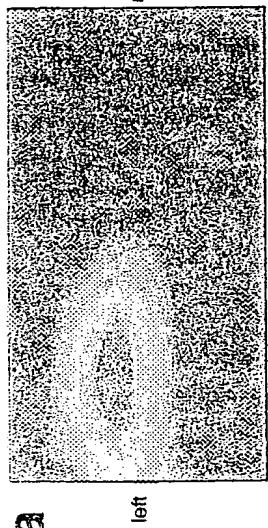


Fig.12 b

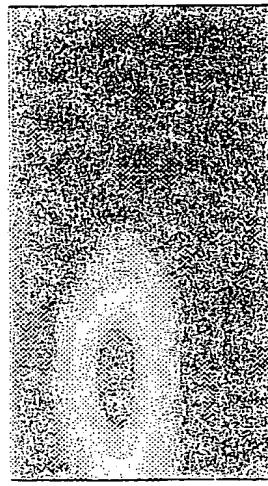


Fig.12 c

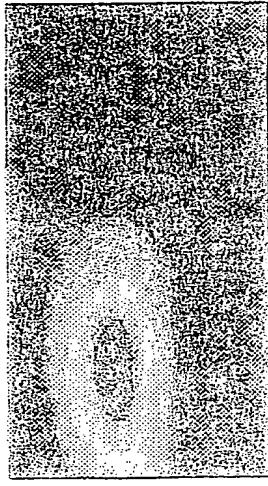


Fig.12

Phase Array Repetitive Study on Forehead

(backward spelling 30s minus rest 30s)

Fig.13 a

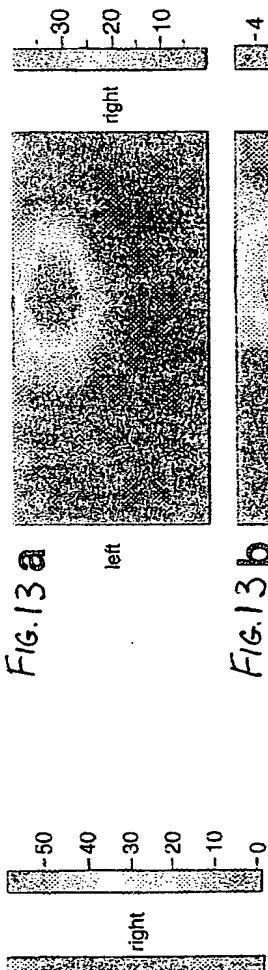


Fig.13 b

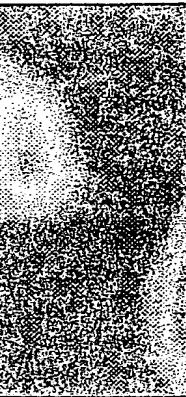


Fig.13 c

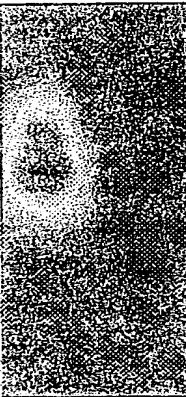
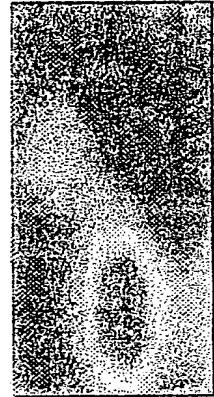


Fig.13 d



Digit 1b

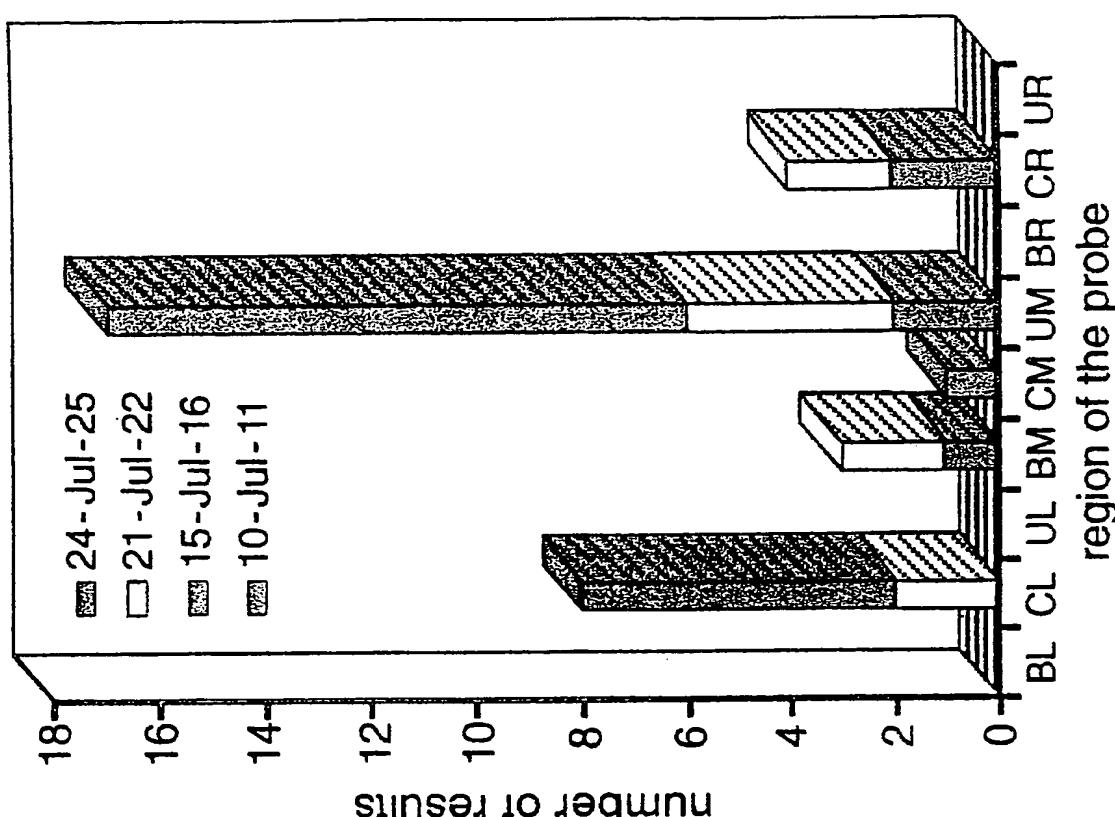
K1W2

A

B

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Location of Signal Focus - Kate; Phase



Location of Signal Focus - Dipti; Phase

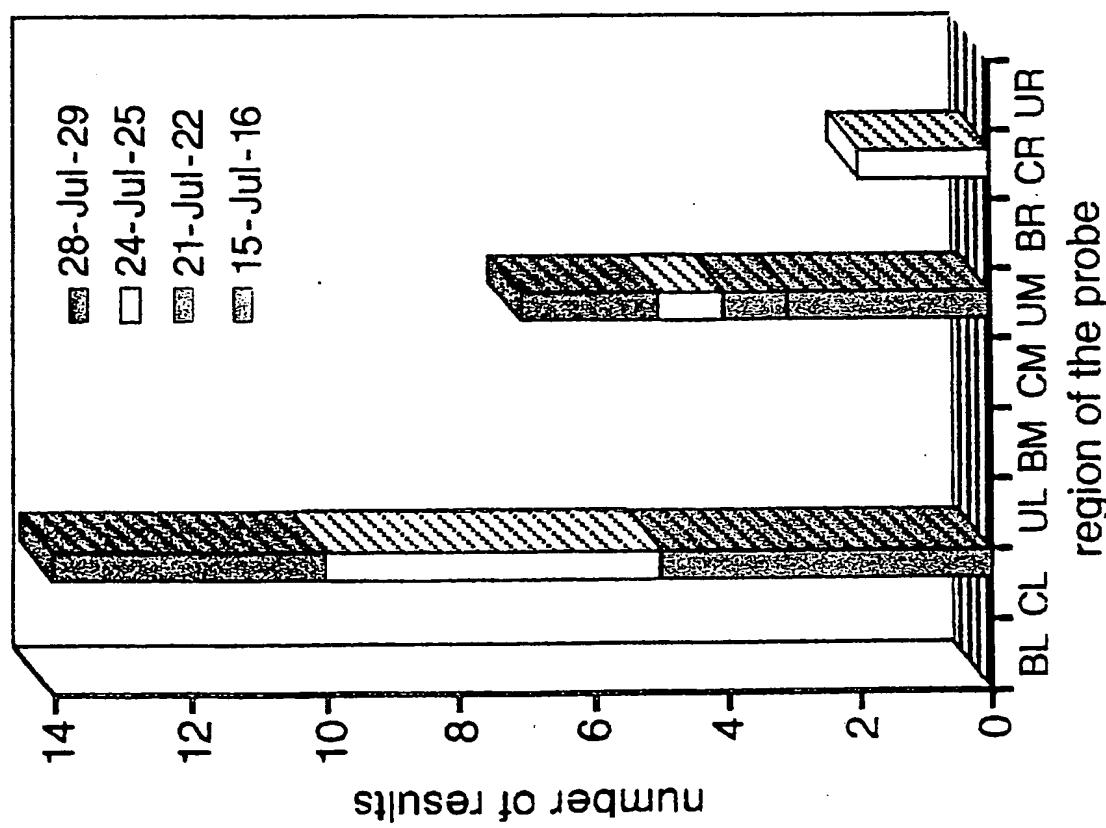


Fig. 14 A

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Fig. 14 B

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50 MHz Phased Array Image of Baby Brain
7-day-old premature baby (9/18/97)

Stimulation of left finger
(spontaneous kicking)



Stimulation of right finger
(no spontaneous kicking)

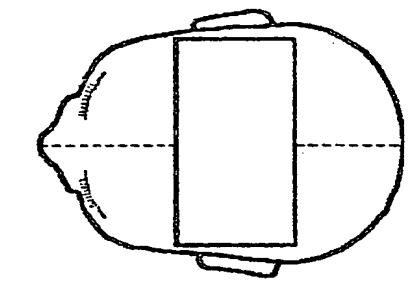


Fig. 15A

Fig. 15B

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